

Purchase Order Receipt Listing

Friday April 11, 2014 7:16:30 AM

All amounts are calculated in domestic currency

Page 1 of 1

All Vendors PO ID po23537 All Receipt Dates All Line Item Types
All Item ID/GL WOS All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID Description/ Cert Std	Reference/ Stock U/M	PO U/M / Stock U/M	Required Date	Recv Date/	Recv Qty	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty	MRB Qty/ (PO U/M)	Book Amt
VendorID\Vendor Name	VC-MET001	Metaux Castle			Required Qty	Recv Date/	Recv Emp	(PO U/M)			
PO23537	1	M174PH-H900R0.500	f	4/4/2014	4/10/2014	24.2917	\$7.61	0.0000	0	\$184.80	
CAD	No	17-4SS H900 ROUND BAR 0.500	f	24.0000	DESJ02		\$184.80	0.0000	0		
		M128809									
2		M174PH-H900R0.750	f	4/4/2014	4/10/2014	24.3958	\$9.47	0.0000	0	\$231.06	
No		17-4 SS H900 ROUND BAR 0.750"	f	24.0000	DESJ02		\$231.06	0.0000	0		
		M128809									
3		M174PH-H900R1.500	f	4/4/2014	4/10/2014	37.7083	\$20.07	0.0000	0	\$756.92	
No		17-4SS H900 ROUND BAR 1.500	f	36.0000	DESJ02		\$756.92	0.0000	0		
		M128809									
4		M174PH-H900R2.000	f	4/4/2014	4/10/2014	24.6458	\$35.08	0.0000	0	\$864.58	
No		17-4SS H900 ROUND BAR 2.000	f	24.0000	DESJ02		\$864.58	0.0000	0		
		M128809									
5		71401-45 PROCUREMENT QUALITY CLAUSES		4/4/2014	4/10/2014	1.0000	\$0.00	0.0000	0	\$0.00	
No		M128809		1.0000	DESJ02		\$0.00	0.0000	0		

Total Received Quantity

Total Received Quantity

Total Reject Quantity

Total Receipt Value

Total Balance Due Quantity

112.0416
0.0000
0.0000
\$2,037.37
0.0000



A. M. Castle & Co.

BORDEREAU DE MARCHANDISES
CERTIFICAT DE CONFORMITE

Page 1 of 2

No de Formulaire d'Emballage / Pack Slip No:1690543

Expédié de / Ship From:	Vendu à / Sold To:	Expédié à / Ship To:	Livré à / Deliver To:
A. M. Castle & Co. (Canada) Inc. Toronto 2150 Argentia Road MISSISSAUGA, ON L5N 2K7	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	METCOR INC. 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CA	METCOR INC. 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CA

Date d'expédition / Date Shipped	F.O.B.	Modalités de transport / Freight Terms	Transporteur / Carrier	No du Bon de connaissance / BOL No	Nº de livraison / Delivery No
03-APR-2014	ORIGIN	Prepaid	UPS	1698840	119582606

Détails d'expédition / Shipment Details			Destination finale / Final Destination Branch -		
Nº de commande / Order No	Nº de ligne / Line No	Nº d'article / Item No	Description		
3290327	2	14966.MO	0.7500.RD17CR4NI.STAINLESS.CF.SOL TR.COND A.132-0000-156.0000	CUT TO 146-375 IN () - CUT IN 4TH'S SPECIFICATIONS; ATTN MONTREAL: SHIP TO METCOR AMS 5643 ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S	
			Email P/s and certs to: clavoie@dartaero.com		
Nº de bon de commande / Purchase Order No	Nbre de pièces / Part Number	Qté commandée / Ordered Qty	Qté Facturée / Invoice Qty	Qté expédiée / Shipped Qty (LBS)	Qté expédiée / Shipped Qty (LBS)
23537		2.00 PCS	24.3958 FT	36.5938	36.5938
Détails / Details	No de coulée / Heat Number	Code méc / Mech Id	Pièces / PCS	Largeur (Pouce) / Width (IN)	Longueur (Pouce) / Length (IN)
Usine / Mill	256490		2		
VALBRUNA					



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A. M. Castle & Co.

BORDEREAU DE MARCHANDISES
CERTIFICAT DE CONFORMITE

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CORPORATION	
<p>Nous certifions par la présente que le matériel couvert par cette certification est conforme aux spécifications susmentionnées et aux exigences applicables pour le matériel y compris toute spécification faisant partie de la description. Les rapports d'essai sont archivés pour fins de consultation. Toute requête concernant du matériel defectueux sera rejetée à moins qu'elle ne soit faite par écrit à A. M. Castle & Co dans les 60 jours suivant la livraison. Le matériel coupé sur mesure ou coupé par le client ne peut être retourné pour crédit.</p> <p>We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A. M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.</p> <p>Ce matériel a été reçu et inspecté par</p> <p>Reviewed by Authorized Castle Metals Representative:</p>	
Date:	Name:



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A. M. Castle & Co.

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BORDEREAU DE MARCHANDISES
CERTIFICAT DE CONFORMITE

No de Formulaire d'Emballage / Pack Slip No:1690540

Page 1 of 2

Expédié de / Ship From:	Vendu à / Sold To:	Expédié à / Ship To:	Livré à / Deliver To:
A. M. Castle & Co. (Canada) Inc. Toronto 2150 Argentia Road MISSISSAUGA, ON L5N 2K7	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	METCOR INC. 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CA	METCOR INC. 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CA

Date d'expédition / Date Shipped	F.O.B.	Modalités de transport / Freight Terms	Transporteur / Carrier	No du Bon de connaissance / BOL No	Nº de livraison / Delivery No
03-APR-2014	ORIGIN	Prepaid	LTL	1698837	119582608

Détails d'expédition / Shipment Details

Nº de commande / Order No	Nº de ligne / Line No	Nº d'article / Item No	Description
3290327	3	14976.MO	<p>1.5000 RD.17CR-4NI.STAINLESS.CF.SOL TR.COND</p> <p>A.132.0000-156.0000</p> <p>CUT TO 150.833331115 IN() - CUT IN 4TH'S SPECIFICATIONS:</p> <p>ATTN MONTREAL: SHIP TO METCOR</p> <p>AMS 5643</p> <p>ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY</p> <p>ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S</p> <p>Email P/s and certs to: clavoie@dartaeiro.com</p>

Détails / Details

Nº de bon de commande / Purchase Order No	Nbre de pièces / Part Number	Qté commandée / Ordered Qty	Qté Facturée / Invoice Qty
23537		3.00 PCS	37.7083 FT



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A. M. Castle & Co.

**BORDEREAU DE MARCHANDISES
CERTIFICAT DE CONFORMITE**

Page 2 of 2

CORPORATION		
<p>Nous certifions par la présente que le matériel couvert par cette certification est conforme aux spécifications susmentionnées, et aux exigences applicables pour le matériel, y compris toute spécification faisant partie de la description. Les rapports d'essais sont archivés pour fins de consultation. Toute requête concernant du matériel défectueux sera rejetée à moins qu'elle ne soit faite par écrit à A. M. Castle & Co., dans les 60 jours suivant la livraison. Le matériel coupé sur mesure ou coupé par le client ne peut être renvoyé pour crédit.</p> <p>We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A. M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.</p> <p>Ce matériel a été reçu et inspecté par _____</p> <p>Reviewed by Authorized Castle Metals Representative: _____</p>		
Date:	Name:	



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BORDEREAU DE MARCHANDISES
CERTIFICAT DE CONFORMITE

Page 1 of 2

No de Formulaire d'Emballage / Pack Slip No: 1690542

Expédié de / Ship From:	Vendu à / Sold To:	Expédié à / Ship To:	Livré à / Deliver To:
A. M. Castle & Co. (Canada) Inc. Toronto 2150 Argentia Road MISSISSAUGA, ON L5N 2K7	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	METCOR INC. 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CA	METCOR INC. 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CA

Date d'expédition / Date Shipped	F.O.B.	Modalités de transport / Freight Terms	Transporteur / Carrier	No du Bon de connaissance / BOL No	Nº de livraison / Delivery No
03-APR-2014	ORIGIN	Prepaid	LTL	1698839	119582607

Détails d'expédition / Shipment Details

Destination finale / Final Destination Branch -

Nº de commande / Order No	Nº de ligne / Line No	Nº d'article / Item No	Description
3290327	4	14981.MO	2.0000.RD.17CR-4NI.STAINLESS.CF.SOL TR.COND A-132-0000-156.0000 CUT TO 153.875 IN () - CUT IN 4TH'S SPECIFICATIONS: ATTN MONTREAL: SHIP TO METCOR AMS 5643 ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S Email P/s and certs to: clavoie@dartaero.com

Nº de bon de commande / Purchase Order No	Nbre de pièces / Part Number	Qté commandée / Ordered Qty	Qté Facturée / Invoice Qty
23537		2.00 PCS	25.6458 FT

Détails / Details	No de coulée / Heat Number	Code méc / Mech Id	Pièces / PCS	Largeur (Pouce) / Width (IN)	Longueur (Pouce) / Length (IN)	Qté expédiée / Shipped Qty (LBS)
Usine / Mill VALBRUNA	257635	2				273.8975



Castle Metals®

A. M. Castle & Co.

**BORDEREAU DE MARCHANDISES
CERTIFICAT DE CONFORMITE**

Page 2 of 2

CORPORATION		
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	Date:	Name:



Castle Metals®

A. M. Castle & Co.

**BORDEREAU DE MARCHANDISES
CERTIFICAT DE CONFORMITE**

COPIE

Page 1 of 2

No de Formulaire d'Emballage / Pack Slip No:1690544

Expédié de / Ship From:	Vendu à / Sold To:	Expédié à / Ship To:	Livré à / Deliver To:
A. M. Castle & Co. (Canada) Inc. Toronto 2150 Argentia Road MISSISSAUGA, ON L5N 2K7	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	METCOR INC. 560 BOUL. ARTHUR-SAUVÉ SAINT-EUSTACHE, QC J7R 5A8 CA	METCOR INC. 560 BOUL. ARTHUR-SAUVÉ SAINT-EUSTACHE, QC J7R 5A8 CA

Date d'expédition / Date Shipped	F.O.B.	Modalités de transport / Freight Terms	Transporteur / Carrier	No du Bon de connaissance / BOL No	Nº de livraison / Delivery No
03-APR-2014	ORIGIN	Prepaid	UPS	1698841	119582616

Détails d'expédition / Shipment Details

Destination finale / Final Destination Branch -

Détaillist / Details

Nº de commande / Order No	Nº de ligne / Line No	Nº d'article / Item No	Description
3290327	1	14961.MO	<p>0.5000.RD.17CR-4NI STAINLESS.CF.SOL TR.COND A.144.0000 CUT TO 145.74997006 IN () - CUT IN 4TH'S SPECIFICATIONS: ATTN MONTREAL: SHIP TO METCOR AMS 5643</p> <p>ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S</p> <p>Email P/s and certs to: clavoie@dartaero.com</p>

Nº de bon de commande / Purchase Order No	Nbre de pièces / Part Number	Qté commandée / Ordered Qty	Qté Facturée / Invoice Qty
23537		2.00 PCS	24.2917 FT

Usine / Mill	No de coulée / Heat Number	Code méc / Mech Id	Pièces / PCS	Largeur (Pouce) / Width (IN)	Longueur (Pouce) / Length (IN)	Qté expédiée / Shipped Qty (LBS)
VALBRUNA CORPORATION	261341		2			16.2268

Nous certifions par la présente que le matériel couvert par cette certification est conforme aux spécifications susmentionnées et aux exigences applicables pour le matériel, y compris toute spécification faisant partie de la description. Les rapports d'exportation de ces marchandises, technologie ou logiciel ont été expédiés du Canada aux États-Unis conformément aux régulations d'administration des douanes. Toute diversion contraria à la loi sur les marchandises.

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law prohibited.

10 April 2014 10:50:50 AM



Castle Metals®

A. M. Castle & Co.

**BORDEREAU DE MARCHANDISES
CERTIFICAT DE CONFORMITE**

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essai sont archivées pour fins de consultation. Toute requête concernant du matériel defectueux sera rejetée à moins qu'elle ne soit faite par écrit à A. M. Castle & Co. dans les 60 jours suivant la livraison. Le matériel coupé sur mesure ou coupé par le client ne peut être renvoyé pour crédit.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description.

Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A. M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Ce matériel a été reçu et inspecté par

Reviewed by Authorized Castle Metals Representative:

Date:

Name:

Acciaierie Valbruna s.p.A.



36100 VICENZA (Italia) - Viale della scienza, 25 z.i.

Slab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Cient
VALBRUNA CANADA LTD
8724 HOLGATE CRESCENT
L5T 5Z1-MILTON, ONT L5T 5Z1-CA

Produttore: ACCIAIERIE VALBRUNA S.P.A.
Responsible/Responsible product

Stato di fornitura: Hot rolled - COND. A Centerless Ground
Lieferzustand/Delivery state/Etat de livraison

Specifiche:
Anforderungen / Requirements / Exigences

3174-01 35 630 A
ASME SA564 2013 S17400 A (0)

(0) SECTION II PT.A 2013 EDITION

Qualità: 630

Werkstoff/Grade/Alliance

Marca: V174
Markenbezeichnung
Brandnaam

Tolleranza: ASTM A484-11 TABLE 7
Toleranz/Allowance/Tolerance

Punzonatura: 630
Kennzeichnung/Marking/Marquage

Pos. nr. Pos. nr. Item nr. Nr. de poste	Oggetto Gegenstand Product description Descrip. du produit	Dimensioni - In Abmessungen Dimensions Dimensión	Lunghezza - In Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Lot nr. Lot nr.
0040	Round	0,5000	144 / 148	261341		1.559	312807210

AMS 2303 F.
ASTM A564 2010 S17400 A

DAB
14/4/2013
AMS 5643 S S17400 A

Certificato nr: MEST444351/2013/ 1
Prüfung/Test/Essai

Conferma ordine nr: EI13009446
Werks/Our Order/Ref. nr.

Marchio di Fabbrica:
Zeichen des Lieferwerks
Trade mark
Sigle de l'usine produzione



Punzone del Collaudatore:
Stempel des Werkssachverständigen
Inspector's stamp/Pointon de l'assayeur

AMS 2303 F.
ASTM A564 2010 S17400 A

TEST ALLO STATO DI FORNITURA

Test on delivery condition Prüfung auf Lieferbereitem produkt test a feil de fourniture Prueba sobre el material así como entregado

TEST	Proveita/Proboscis Specimen/Probenstück Werk Stahl, Dicke Werk Diam. Thickness Larg. diam. espes. mm	°F Posiz. Saggio Position Saggenort 1)	Snervamento Spannung Yield Stress Limite elastique Rp 0,2% k.s.i.	Snervamento Spannung Yield Stress Limite elastique	Resistenza Zugfestigkeit Tensile strength Resistencia a tracción Rm k.s.i.	Allungamento Biegefestigkeit Elongation Allongement	Strizione Eindrückung Reduction of area Reduction E 4d %	Resilienza Kerbhärtefestigkeit Impact Value Resistance	Durezza Härte Hardness Dureza HB
Valori richiesti 1 Anforderungen/Required values Valores demandados	min max	-	-	-	175	-	-	-	363
A	12.7	68	L	133	159	8	48	344	

TEST		min	max
B	Delta Ferrite	5,0	1,0 %
B	RATINGS FREQUENCY	1,10	0
B	RATINGS SEVERITY	1,05	0

Sample cond. H900											
Tipo Trattamento Wärmebehandlung Heat Treatment Traitement Thermique	Temperatura Temperatur Temperature Temperatura 900 °F	Raffreddamento Abkühlung Cooling Refroidissement	Permanenza Halbwärme Halbwärme Märkten	Tipo Trattamento Wärmebehandlung Heat Treatment Traitement Thermique	Temperatura Temperatur Temperature Temperatura	Raffreddamento Abkühlung Cooling Refroidissement	Permanenza Halbwärme Halbwärme Märkten	Tipo Trattamento Wärmebehandlung Heat Treatment Traitement Thermique	Temperatura Temperatur Temperature Temperatura	Raffreddamento Abkühlung Cooling Refroidissement	Permanenza Halbwärme Halbwärme Märkten
TEST	Proveita/nobreak Specimen/Proboscis Werk Stahl, Dicke Werk Diam. Thickness Larg. diam. espes. mm	°F Posiz. Saggio Position Saggenort 1)	Snervamento Spannung Yield Stress Limite elastique Rp 0,2% k.s.i.	Snervamento Spannung Yield Stress Limite elastique	Resistenza Zugfestigkeit Tensile strength Resistencia a tracción Rm k.s.i.	Allungamento Biegefestigkeit Elongation Allongement	E 4d %	Strizione Eindrückung Reduction of area Reduction RA %	Resilienza Kerbhärtefestigkeit Impact Value Resistance	Durezza Härte Hardness Dureza HB	
Valori richiesti 1 Anforderungen/Required values Valores demandados	min max	170	-	190	-	10	-	40	-	388 444	
B	12,5	68	L	190	205	18	-	60	-	430	

1)L-longitudinale/larga, T-transversale/quer, O=tangenziale/tangential

Mechanical properties according to ASTM A370.
Delta Ferrite according to AMS 2315.

Vicenza, 24/02/14
VC0006
(Mod. MCE2)

Il collaudatore di stabilimento / der Werkssachverständiger / Works Inspector / L'agent d'usine

M.Rizzotto

Pagina - 1 di 2

Acciaierie Valbruna s.p.a.



CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2004), 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Client
VALBRUNA CANADA LTD
8724 HOLGATE CRESCENT
L5T 5Z1-MILTON, ONT L5T 5Z1-CA

Produttore: ACCIAIERIE VALBRUNA S.P.A.
Hersteller/Usine/Usina produzione

Stato di fornitura: Hot rolled - COND. A Centerless Ground
Lieferzustand/Delivery state/Etat de livraison

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-VI13037321
Lieferanzeige/Packing Isv.B.L.

Ordine nr: 311004478 Stock - Canada
Bestell/Vour order/Commande

Certificato nr: MEST444351/2013/ 1
Prüfung/Test/Essai

Conferma ordine nr: EI13009446
Werks/Our Order/Ref nr.

Marchio di Fabbrica:
Zeichen des Lieferwerkes
Trade mark
Sigle de l' usine/produzione



Punzone del Collaudatore:
Stempel des Werkssachverständigen
Inspector's stamp/Pointon de l' assesseur



Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata Metal Schmelze/Coulée	min - max 0,070	1,00	1,00	15,00 17,50	0,50	3,00 5,00	3,00 5,00	0,040	0,030	-	-	-	-	-	-
261341	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	P %	S %	Ta %					
	0,044	0,43	0,47	15,12	0,15	3,23	4,58	0,025	0,001	0,0001					

Colata Metal Schmelze/Coulée	min 5°C max 0,450	0,150 0,450													
261341	Cb(Nb)%	0,274	Nb%+Ta%	0,274											

Reduction ratio > 3 : 1

Annealing temperature 1904 deg. F for 1 h, air
cool to below 90F.

Macroetch test per ASTM E340: acceptable.

Material annealed 1070C for 0,5h min/air cooled.

Furnace calibrated according to AMS-H-6875;A;APRIL 2006

Material is DFARS Compliant

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind erfüllt.
The material has been furnished in accordance with the requirements
Le matériaux a été trouvé conforme aux exigences

Controllo antimescolanza: OK
Verwechslungsprüfung: spezialanalytisch durchgeführt
Annealing testing performed: OK
Contrôle antimeslangne fait: i.e.s.

Controllo visivo e dimensionale: soddisfa le esigenze
Besichtigung und Ausmessung: ohne Beanstandung
Visual inspection and dimensional check: satisfactory
Contrôle visuel et dimensionnel: satisfaisant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination
We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

The Quality Management System is Certified acc. Pressure Equipment Directive (97/23/EC) Annex 1, s., 4.3 by TUEV and LLOYD'S
Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.

The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

Vicenza, 24/02/14
VC0008
(Mod. MCE2)

Il collaudatore di stabilimento / der Werkssachverständige / Works Inspector / L' agent d' usine

M. Rizzotti

Pagina - 2 di 2

Acciaierie Valbruna S.p.A.



CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2004), 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.I.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Client
VALBRUNA CANADA LTD
8724 HOLGATE CRESCENT
L5T 5Z1-MILTON, ONT L5T 5Z1-CA

Produttore: ACCIAIERIE VALBRUNA S.p.A.
Herasteller/Manufacture producteur

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-VI12022059
Lieferanzeige/Packing list/B.L.

Certificato nr: MEST226048/2012/ 1

Prüfung/Test/Essai

Ordine nr: 207003755 Stock - Canada
Bestell/Your order/Commande

Conferma ordine nr: EI12005695
Werks/Our Order/Ref. nr.

Stato di fornitura: Hot rolled Polished Annealed Peeled
Lieferzustand/Delivery state/Etat de livraison

Tipo di Elaborazione: E+AOD
Erschmelzungs/Melting process/Mode d'elaboration

Marchio di Fabbrica:
Zeichen der Lieferwerke
Trade mark
Sigle de l'usine producteur

Punzone del Collaudatore:
Stampel des Werkssachverständigen
Inspector's stamp/Point de l'assesseur

Specifiche:
Anforderungen / Requirements / Exigences

VAL CANADA 2 630 A
ASTM A564 2010 S17400

AMS 5643 R S17400
AMS 2303 F C<0,25

ASME SA564 2010 S17400 (0)

(0) SEC.II PT.A 2010 EDITION ADD. 2011a

Qualità: 630
Werksf/Grade/Nuance

Marca: V174
Markenbezeichnung/Brand/Nuance

Pos. nr. Pos. nr. Nr. de poste	Oggetto Geobjekt Product description Descrip. du produit	Dimensioni - In Abmessungen Dimension Dimension	Tolleranza Toleranz Allowances Tolerance	Lunghezza - In Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces	Peso - LB Gewicht Weight Poids	Lotto nr. Lotto nr. Lot nr.
0020	Round	2,0000	484-11	144 / 155	257635		4.330	133204350

TEST ALLO STATO DI FORNITURA Test on delivery condition Prüfung auf lieferbereitem produkt test a l'état de fourniture Prueba sobre el material así como entregado									
TEST	Provetta/probestab Spindel/probestab Bale di filo, Dicke With filo, Thickness Larg. diam. spool mm	°F Posiz. Saggio Position Saggen Emplacement	Snergamento Bridgering Yield Stress Unità dinamica	Snergamento Bridgering Yield Stress Unità dinamica	Resistenza Tugofight Tensile strength Resistance à traction	Allungamento Elongation Elongation Allongement	Strizione Dehnung Elongation Allongement	Resilienza Kehdelgutteil Impact Value Resilience	Durezza Härte Hardness Dureza HB
Valori richiesti 1 Anforderungen/Required values Valores demandados	min max	-	-	-	-	-	-	-	363
A									329

TEST		min	max
A	Delta Ferrite	5,0	1,0 %
A	RATINGS FREQUENCY	1,10	0
A	RATINGS SEVERITY	1,05	0

Sample cond. H900											
Tipo Trattamento Wärmebehandlung Heat Treatment Traitement Thermique	Temperatura Temperatur Temperature	Raffreddamento Abkühlung Cooling Refroidissement	Permanenza Halbwärme Halbwärme Halbwärme Halbwärme Halbwärme	Tipo Trattamento Wärmebehandlung Heat Treatment Traitement Thermique	Temperatura Temperatur Temperature	Raffreddamento Abkühlung Cooling Refroidissement	Permanenza Halbwärme Halbwärme Halbwärme Halbwärme Halbwärme	Tipo Trattamento Wärmebehandlung Heat Treatment Traitement Thermique	Temperatura Temperatur Temperature	Raffreddamento Abkühlung Cooling Refroidissement	Permanenza Halbwärme Permanenz Mehrheit
Aging	900 °F	AIR	60								
TEST	Provetta/probestab Spindel/probestab Bale di filo, Dicke With filo, Thickness Larg. diam. spool mm	°F Posiz. Saggio Position Saggen Emplacement	Snergamento Bridgering Yield Stress Unità dinamica	Snergamento Bridgering Yield Stress Unità dinamica	Resistenza Tugofight Tensile strength Resistance à traction	Allungamento Elongation Elongation Allongement	Strizione Dehnung Elongation Allongement	Resilienza Kehdelgutteil Impact Value Resilience	Durezza Härte Hardness Dureza HB		
Valori richiesti 1 Anforderungen/Required values Valores demandados	min max	170	-	190	-	10	-	40	-	388 444	
B	12,5	68	L	182		199		16	52		429

1L=longitudinale/länge, T=transversale/quer, O=tangenziale/tangential

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata /Heat Schmelze/Coulée	min : max 0,070	1,00	1,00	15,00 17,50	0,50	3,00 5,00	3,00 5,00	0,040	0,030	-	-	-
257635	C % 0,035	Si % 0,45	Mn % 0,49	Cr % 15,08	Mo % 0,19	Cu % 3,37	Ni % 4,52	P % 0,025	S % 0,001	Ta % 0,0001		

Vicenza, 22/01/14 VOC008 (Mod. NCE2)	Il collaudatore di stabilimento / der Werkssachverständige / Works Inspector / L'agent d'usine M. Rizzotto	Pagina - 1 di 2
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Acciaierie Valbruna S.p.A.



36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Stab.: 38100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Client
VALBRUNA CANADA LTD
8724 HOLGATE CRESCENT
LST 5Z1-MILTON, ONT L5T 5Z1-CA

Produttore: ACCIAIERIE VALBRUNA S.p.A.
Herksteller/fabri/Usine productrice

Stato di fornitura: Hot rolled Polished Annealed Pealed
Lieferzustand/Delivery state/Etat de livraison

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-VI12022059
Lieferanzeige/Packing Es/B.L.

Ordine nr: 207003755 Stock - Canada
Bestell/Vour order/Commande

CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2004), 3.1

Certificato nr: MEST226048/2012/ 1
Prüfung/Test/Essai

Conferma ordine nr: EI12005695
Werks/Our Order/Ref nr.

Marchio di Fabbrica:
Zeichen des Herstellers
Trade mark
Sigle de l' usine productrice



Punzone del Collaudatore:
Stampel des Werkssachverständigen
Inspector's stamp/Polonçon de l' assesseur



Colata / Heiz Schmelze/Cuölle	min 0,150 max 0,450	5°C 0,450					
257635	Nb%+Ta%	Cb(Nb)%	0,282				

Material solution annealed 1904F for 1.5 H,
air cooled to below 90F.

Macro etch test: satisfactory.

Produced without class I-II Ozone depleting substances.

Material is DFARS Compliant

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind erfüllt.
The material has been furnished in accordance with the requirements
Le matériels a été trouvée conforme aux exigences

Controllo antimiscelazione: OK
Verwendungsgrenzung: speziell auf das durchgeführt
Anwendungsgrenzung: OK
Contrôle antimélange fait: i.e.s.

Controllo visivo e dimensionale: soddisfa le esigenze
Besichtigung und Ausmessung: ohne Beurteilung
Visual inspection and dimensional check: satisfactory
Contrôle visuel et dimensionnel: satisfaisant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination

We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

The Quality Management System is Certified acc. Pressure Equipment Directive (97/23/EC) Annex 1,8,4.3 by TUEV and LLOYD'S
Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.
The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

Vicenza, 22/01/14
VC0008
(Mod. MCE2)

Il collaudatore di stabilimento / der Werkssachverständige / Works Inspector / L' agent d' usine

M. Rizzotto

Pagina - 2 di 2

Acciaierie Valbruna s.p.a.



CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2004), 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.

Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchase/Client

VALBRUNA CANADA LTD

8724 HOLGATE CRESCENT

L5T 5Z1-MILTON, ONT L5T 5Z1-CA

Produttore: STABILIMENTO DI BOLZANO

Hersteller/Item/Usine productrice

Stato di fornitura: Hot rolled Polished Annealed Peeled
Lieferzustand/Delivery state/Etat de livraison

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-BZ13004301
Lieferanzeige/Packing list/B.L.

Certificato nr: MEST381662/2013/ 1
Prüfung/Test/Essai

Conferma ordine nr: EI13000197
Werks/Our Order/Ref. nr.

Marchio di Fabbbrica:
Zeichen des Lieferwerkes
Trade mark
Sigle de l'usine productrice



Ordine nr: 301003993 Stock - Canada
Bestell/Your order/Commande

Punzone del Collaudatore:
Stempel des Werkssachverständigen
Inspector's stamp/Pointage de l'inspecteur

Specifiche:
Anforderungen / Requirements / Exigences

VAL CANADA 2 630 A

ASTM A564 2010 S17400

AMS 5643 R S17400
AMS 2303 F C<0,25

ASME SA564 2010 S17400 (0)

(0) SEC.II PT.A 2010 EDITION ADD. 2011a

Qualità: 630
Qualität/Qualité/Qualité

Marca: V174
Markenbezeichnung/BrandName

Pos. nr. Pos. nr. Nr. de posa	Oggetto Gegenstand Product description Descrip. of produit	Dimensioni - In Abmessungen Dimension Dimension		Tolleranza Toleranz Allowance Tolerance	Lunghezza - In Länge Length Longueur		Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pezzi	Peso - LB Gewicht Weight Poids	Lotto nr. Lotto nr. Lot n.
		1,5000	484-11		146 / 151	260151				
0030	Round									

TEST ALLO STATO DI FORNITURA

TEST		Test on delivery condition		Prüfung auf Lieferbereitst. produkt		test a l'état de fourniture		Prueba sobre el material así como entregado			
TEST	Provetta/Probestab Spachtel/Spachtelstab Lang. & Spess. Basis Dicke Wtth. Dicke, Thickness Lang. diam. spess. mm	°F	Posiz. Saggio Position Saggen Position *)	Snervamento Spannung Tension Tension Limiti elastici	Snervamento Spannung Tension Tension Limiti elastici	Resistenza Zugfestigkeit Tensile strength Resistance à traction	Allungamento Erlauchung Elongation Allongement	Strizione Eindrückung Indentation Gividen	Resilienza Kerbholzprüfung Impact Value Resilience	Durezza Härte Hardness Dureté HB	
Valori richiesti 1 Anforderungen/Required values Values demandées	min max										363
A											338

TEST			min	max	
A	Delta Ferrite		5,0	0 %	
A	RATINGS FREQUENCY		1,10	0	
A	RATINGS SEVERITY		1,05	0	

Sample cond. H900											
Tipo Trattamento Wärmebehandlung Heat Treatment	Temperatura Temperatur Temperature	Raffreddamento Abkühlung Cooler Abkühlung	Permanenza Halbwertszeit Halbwertszeit	Tipo Trattamento Wärmebehandlung Heat Treatment	Temperatura Temperatur Temperature	Raffreddamento Abkühlung Cooler Abkühlung	Permanenza Halbwertszeit Halbwertszeit	Tipo Trattamento Wärmebehandlung Heat Treatment	Temperatura Temperatur Temperature	Raffreddamento Abkühlung Cooler Abkühlung	Permanenza Halbwertszeit Halbwertszeit
Aging	900 °F	AIR	60								
TEST	Provetta/Probestab Spachtel/Spachtelstab Lang. & Spess. Basis Dicke Wtth. Dicke, Thickness Lang. diam. spess. mm	°F	Posiz. Saggio Position Saggen Position *)	Snervamento Spannung Tension Tension Limiti elastici	Snervamento Spannung Tension Tension Limiti elastici	Resistenza Zugfestigkeit Tensile strength Resistance à traction	Allungamento Erlauchung Elongation Allongement	Strizione Eindrückung Indentation Gividen	Resilienza Kerbholzprüfung Impact Value Resilience	Durezza Härte Hardness Dureté HB	
Valori richiesti 1 Anforderungen/Required values Values demandées	min max		170		190			10	40		388 444
B	12.5	68	L	185	201			14	51		431

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata /Heat Schmelze/Coulée	min - max 0,070	1,00	1,00	15,00 17,50	- 0,50	3,00 5,00	3,00 5,00	0,040 0,030	-	-	-
260151	C % 0,036	Si % 0,46	Mn % 0,51	Cr % 15,18	Mo % 0,15	Cu % 3,35	Ni % 4,53	P % 0,020	S % 0,001	Ta % 0,0015	

Bolzano, 22/01/14 BB006 (Mod. MCE2)	Il collaudatore di stabilimento / der Werkssachverständige / Works Inspector / L'agent d'usine M.Rizzotti	Pagina - 1 di 2
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Acciaierie Valbruna s.p.A.

38100 VICENZA (Italia) - Viale della scienza, 25 z.i.

Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Cient

VALBRUNA CANADA LTD

8724 HOLGATE CRESCENT

L5T 5Z1-MILTON, ONT L5T 5Z1-CA

Produttore: STABILIMENTO DI BOLZANO

Hersteller/Supplier/Usine productrice

Stato di fornitura: Hot rolled Polished Annealed Peeled
Lieferzustand/Delivery state/Etat de livraison



CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2004), 3.1

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-BZ13004301
Lieferanzeige/Packing Ref/B.L.

Certificato nr: MEST381662/2013/ 1
Prüfung/Test/Essai

Conferma ordine nr: EI13000197
Werks/Our Order/Ref nr.

Marchio di Fabbrica:
Zeichen des Lieferwerkes
Trade mark
Sigle de l' usine producice



Punzone del Collaudatore:
Stampel des Werkssachverständigen
Inspector's stamp/Portepon de l' assesseur



Colata /Heat Schmelze/Coulée	min 0,150 max 0,450	SiC 0,460					
260151	Nb%+Ta% 0,297	Cb(Nb)% 0,295					

Material solution annealed 1904F for 1 H,
air cooled to below 90F.

Macro etch test: satisfactory.

Produced without class I-II Ozone depleting substances.

Material is DFARS Compliant

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind erfüllt.
The material has been furnished in accordance with the requirements
Le matériel a été trouvé conforme aux exigences

Controllo antimescolanza: OK
Vergleichsprüfung: spektroanalytisch durchgeführt
Antimixing testing performed: OK
Controle antimescolanza fait: r.e.s.

Controllo visivo e dimensionale: soddisfa le esigenze
Beobachtung und Ausmessung: ohne Besonderheiten
Visual inspection and dimensional check: satisfactory
Controllo visual et dimensionnel: satisfaisant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination

We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1,s.,4.3 by TUEV and LLOYD'S
Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.
The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

Bolzano, 22/01/14 BBL006 (Mod. MCE2)	Il collaudatore di stabilimento / der Werkssachverständige / Works Inspector / L' agent d' usine M. Rizzotto	Pagina - 2 di 2
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Acciaierie Valbruna S.p.A.



CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2004), 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.

Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Client

VALBRUNA CANADA LTD

8724 HOLGATE CRESCENT

L5T 5Z1-MILTON, ONT L5T 5Z1-CA

Produttore: STABILIMENTO DI BOLZANO

Hersteller/Item/Usine producteur

Stato di fornitura: Hot rolled - Annealed Peeled
Lieferzustand/Delivery state/Etat de livraison

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-BZ12003970
Lieferanzeige/Padding list/B.L.

Certificato nr: MEST21804/2012/ 2
Prüfung/Test/Essai

Conferma ordine nr: E12003558
Werks/Our Order/Ref. nr.

Marchio di Fabbrica:
Zeichen des Ufermarken
Trade mark
Signe de l'usine productrice



Punzone del Collaudatore:
Stempel des Werkssachverständigen
Inspector's stamp/Pointon de l'assayeur



Specifiche:
Anforderungen / Requirements / Exigences

VAL CANADA 2 630 A

ASTM A564 2010 S17400

AMS 5643 R S17400

ASME SA564 2010 S17400 (0)

AMS 2303 F C<0,25

(0) SEC.II PT.A 2010 EDITION ADD. 2011a

Qualità: 630 / UNS 17400
Werkstoff/Grade/Grade

Marca: V174

Markenbezeichnung/Brand/Brands

Pos. nr. Poz. nr. Item nr. Nr. de posa	Oggetto Gegenstand Product description Descrip. du produit	Dimensioni - In Abmessungen Dimension Dimension	Tolleranza Toleranz Allowance Tolerances	Lunghezza - In Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Lösnr. Lot nr. Lot nr.
0080	Round	0,7500	484-11	143 / 147	256490		2.035	132210550

TEST ALLO STATO DI FORNITURA

Test on delivery condition Prüfung auf Lieferbedingungen test a l'état de fourniture Prueba sobre el material así como entregado

TEST	Prove/Prüfungen Spieldurchgang Lang. dient. Brüche Wid. Dient. Brüche Lang. dient. spalt mm	°F Posiz. Saggio Prüfung Position Examen II	Snergamento Bruchgrenze Yield Stress Limite elástica	Snergamento Bruchgrenze Yield Stress Limite elástica	Resistenza Zugfestigkeit Tensile strength Résistance à la traction	Allungamento Elasticità Elongation Allongement	Strizione Erlangung Reduction of area Elongation	Resilienza Kerbchlagarbeit Impact Value Résistance	Durezza Härte Härte Dureza HB
Valori richiesi 1 Anforderungen/required values Valores demandados	mln max								363
A									335

TEST		min	max	
A	Delta Ferrite	5,0	1,0 %	
A	RATINGS FREQUENCY	1,10	0	
A	RATINGS SEVERITY	1,05	0	

Sample cond. H900

Tipo Trattamento Wärmebehandlung Heat Treatment Traitement Thermique	Temperatura Temperatur Temperature Temperature	Refrreddamento Abkühlung Cooling Refroidissement	Permanenza Hältimer Permanence Duración	Tipo Trattamento Wärmebehandlung Heat Treatment Traitement Thermique	Temperatura Temperatur Temperature Temperature	Raffreddamento Abkühlung Cooling Refroidissement	Permanenza Hältimer Permanence Duración	Tipo Trattamento Wärmebehandlung Heat Treatment Traitement Thermique	Temperatura Temperatur Temperature Temperature	Refrreddamento Abkühlung Cooling Refroidissement	Permanenza Hältimer Permanence Duración
Aging	900 °F	AIR	60 °								
TEST	Prove/Prüfungen Spieldurchgang Lang. dient. Brüche Wid. Dient. Brüche Lang. dient. spalt mm	°F Posiz. Saggio Prüfung Position Examen II	Snergamento Bruchgrenze Yield Stress Limite elástica Rp 0,2% k.s.i.	Snergamento Bruchgrenze Yield Stress Limite elástica	Resistenza Zugfestigkeit Tensile strength Résistance à la traction	Allungamento Elasticità Elongation Allongement	Strizione Erlangung Reduction of area Elongation	Resilienza Kerbchlagarbeit Impact Value Résistance	Durezza Härte Härte Dureza HB		
Valori richiesi 1 Anforderungen/required values Valores demandados	min max		170	-	190	-	10	-	40		
B	12.5	68	L	183		202		15		51	

1) L=longitudinale/ längs, T=transversale/ quer, Q=tangenziale/tangential

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata /Heat Schmelze/Coulée	min - max 0,070	1,00	1,00	15,00 17,50	- 0,50	3,00 5,00	3,00 6,00	0,040 0,030	-	-	-
256490	C % 0,036	Si % 0,40	Mn % 0,51	Cr % 15,16	Mo % 0,24	Cu % 3,40	Ni % 4,48	P % 0,024	S % 0,001	Ta % 0,0028	

Bolzano, 22/01/14 BB0006 (Mod. MCE2)	Il collaudatore di stabilimento / der Werkssachverständige / Works Inspector / L'agent d'usine M. Rizzotti	Pagina - 1 di 2
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Acciaierie Valbruna S.p.A.

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.

Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Sesteller/Purchaser/Cust.

VALBRUNA CANADA LTD

8724 HOLGATE CRESCENT

L5T 5Z1-MILTON, ONT L5T 5Z1-CA

Produttore: STABILIMENTO DI BOLZANO

Herrsteller/Item/Usine producteur

Stato di fornitura: Hot rolled - Annealed Peeled
Uferzustand/Delivery state/Etat de livraison



QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Aviso di Spedizione: D-BZ12003970
Lieferanzeige/Packing list/B.L.

Ordine nr: 204003842 Stock - Canada
Bestell/Your order/Commande

Tipo di Elaborazione: E+AOD
Erhitzungsmethode/Melting process/Mode d' élaboration

CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2004), 3.1

Certificato nr: MEST218040/2012/ 2
Prüfung/Test/Essai

Conferma ordine nr: EI12003558
Werks/Our Order/Ref nr.

Marchio di Fabbrica:
Zeichen des Herstellers
Trade mark
Sigle de l' usine producteur



Punzone del Collaudatore:
Stempel des Werkssachverständigen
Inspector's stamp/Pointon de l' assesseur



Cofata /Heat Schmelze/Couleé	min 0,150 max 0,450	5°C 0,450						
256490	Nb%+Ta% 0,283	Cb(Nb)% 0,280						

Material solution annealed 1904F for 1 H ,

air cooled to below 90F.

Macro etch test: satisfactory.

Produced without class I-II Ozone depleting substances.

Material is DFARS Compliant

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind erfüllt.
The material has been furnished in accordance with the requirements
Le matériel a été trouvé conforme aux exigences

Controllo antimescolanza: OK
Verweichungsprüfung: spektroanalytisch durchgeführt
Antimicing testing performed: OK
Contrôle antimélangage (et: r.e.e.)

Controllo visivo e dimensionale: soddisfa le esigenze
Besichtigung und Ausmessung: ohne Beanstandung
Visual Inspection and dimensional check:satisfactory
Contrôle visuel et dimensionnel: satisfaisant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination

We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

The Quality Management System is Certified acc. Pressure Equipment Directive (97/23/EC) Annex 1, s., 4.3 by TUEV and LLOYD'S

Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.

The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the products.

Bolzano, 22/01/14

BBL006
(Mod. MCE2)

Il collaudatore di stabilimento / der Werkssachverständige / Works Inspector / L' agent d' usine

M. Rizzotto

Pagina - 2 di 2

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: МЧРН-Н000.50
 DATE: APR 23 2014

PO / BATCH NO.: 03537

MATERIAL CERT REC'D: Yes THICKNESS ORDERED: .500"
 QUANTITY RECEIVED: 8 X 3' - 24 291 THICKNESS RECEIVED: .5025"
 QUANTITY INSPECTED: 8 X 3' - 24 291 SHEET SIZE ORDERED: 1
 QUANTITY REJECTED: 0 SHEET SIZE RECEIVED: 1

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y N	
CORRECT FINISH	Y N	
CORROSION	Y N	
CORRECT GRAIN DIRECTION	Y N	
CORRECT MATERIAL	Y N	
CORRECT THICKNESS	Y N	
PHOTO REQUIRED	Y N	
CORRECT MATERIAL	Y N	
CORRECT REF # TO LINK CERT	Y N	ASTM A564 20P
CORRECT MATERIAL IDENTIFICATION	Y N	H# 261341
CORRECT M# ON THE MATERIAL	Y N	M128809
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL SIZE OF TEST SAMPLE	HRC	HRB	DUR A	DUR D

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>27 9-89</u> DATE: <u>14/4/13</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M174PH H9000.750

PO / BATCH NO.: 2BS37

DATE: APR 23 2014

MATERIAL CERT REC'D: Yes THICKNESS ORDERED: 0.750
 QUANTITY RECEIVED: 8 x 3' → 24.395' THICKNESS RECEIVED: 0.750
 QUANTITY INSPECTED: 8 x 3' → 24.395' SHEET SIZE ORDERED: 1'
 QUANTITY REJECTED: 0 SHEET SIZE RECEIVED: 1'

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	Y <input checked="" type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/> N	
CORRECT MATERIAL	Y <input checked="" type="radio"/> N	
CORRECT THICKNESS	Y <input checked="" type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT MATERIAL	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/> N	ASN 5608
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/> N	HT 566490
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/> N	M12809
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					REMARKS	
TYPE OF MATERIAL SIZE OF TEST SAMPLE	HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>27</u> <u>9-89</u> DATE: <u>14/4/13</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: m174PH-H006R1500

PO / BATCH NO.: QB537

DATE: APR 23 2014

MATERIAL CERT REC'D: YOS

THICKNESS ORDERED: 1,500

QUANTITY RECEIVED: 37,708

THICKNESS RECEIVED: 1503

QUANTITY INSPECTED: 37,708

SHEET SIZE ORDERED: 1503

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: 1503

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL	Y	N	
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT MATERIAL	Y	N	
CORRECT REF # TO LINK CERT	Y	N	AMS 56B HTI 260151
CORRECT MATERIAL IDENTIFICATION	Y	N	
CORRECT M# ON THE MATERIAL	Y	N	m12x809
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	TESTER
	FORWARD TEST	BACKWARD TEST	TEST A	TEST B	

QC 18 INSPECTION	TESTER	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>27</u> <u>0.00</u>	<u>DAS</u>	SIGNED OFF BY: _____
DATE: <u>APR 23</u>		DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: mГЧРН-Н900R2.00
 DATE: APR 23 2016

PO / BATCH NO.: 28537

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 24.645
 QUANTITY INSPECTED: 24.645
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.00
 THICKNESS RECEIVED: 2.005
 SHEET SIZE ORDERED: 1
 SHEET SIZE RECEIVED: 1

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<u>Y</u> <u>N</u>	
CORRECT FINISH	<u>Y</u> <u>N</u>	
CORROSION	<u>Y</u> <u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u> <u>N</u>	
CORRECT MATERIAL	<u>Y</u> <u>N</u>	
CORRECT THICKNESS	<u>Y</u> <u>N</u>	
PHOTO REQUIRED	<u>Y</u> <u>N</u>	
CORRECT MATERIAL	<u>Y</u> <u>N</u>	AMS SLAB
CORRECT REF # TO LINK CERT	<u>Y</u> <u>N</u>	H# 257635
CORRECT MATERIAL IDENTIFICATION	<u>Y</u> <u>N</u>	m128803
CORRECT M# ON THE MATERIAL	<u>Y</u> <u>N</u>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<u>Y</u> <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<u>Y</u> <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					TESTER SIGN OFF	
TYPE OF MATERIAL SIZE OF TEST SAMPLE	HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>Wyl</u> <u>27</u> DATE: <u>APR 23 2016</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO23537**

Purchase Order Date 3/27/2014

PO Print Date 3/27/2014

Page Number 1 of 5

Order From : VC-MET001
METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W 0E9
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAXED
(03/27/2014)

Contact Name
Vendor Phone 514 694 9575

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 10
Currency CAD
FOB FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Promise Date	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M174PH-H900R0.500	17-4SS H900 ROUND BAR 0.500	4/4/2014	24.00	4/4/2014	f 24.0917	\$8.41	\$201.84

MATERIAL: 17-4 PH COND. H900
AS PER AMS 5643

NOTE:
PLEASE SHIP MATERIAL TO METCOR INC.
560 BOULV. ARTHUR SAUVE
SAINT-EUSTACHE, QC
J7R-5A8
450-473-1884

Line Total:

\$201.84

Note:

3/27/2014



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO23537**

Purchase Order Date 3/27/2014
PO Print Date 3/27/2014

Page Number 2 of 5

Order From : VC-MET001
METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W 0E9
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 514 694 9575

Buyer Chantal Lavoie

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Customer POID
Customer Tax # 10127-2607
Terms Net 10
Currency CAD
FOB FCA - (Free Carrier)

2	M174PH-H900R0.750	17-4 SS H900 ROUND BAR 0.750"	4/4/2014	24.00	/	\$10.47	\$251.28
			No	f	24.3958		
			4/4/2014				

MATERIAL: 17-4 PH COND. H900
AS PER AMS 5643

24.3958
4/4/14

NOTE:
PLEASE SHIP MATERIAL TO METCOR INC.
560 BOULV. ARTHUR SAUVE
SAINT-EUSTACHE, QC
J7R-5A8
450-473-1884

Line Total: \$251.28

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO23537**

Purchase Order Date 3/27/2014
PO Print Date 3/27/2014

Page Number 3 of 5

Order From : VC-MET001
METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W 0E9
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 514 694 9575

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 10
Currency CAD
FOB FCA - (Free Carrier)

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

3	M174PH-H900R1.500	17-4SS H900 ROUND BAR 1.500	4/4/2014	36.00	\$22.19	\$798.84
			Yes	4/4/2014	f 37-7083	

MATERIAL: 17-4 PH COND. H900
AS PER AMS 5643

NOTE:
PLEASE SHIP MATERIAL TO METCOR INC.
560 BOULV. ARTHUR SAUVE
SAINT-EUSTACHE, QC
J7R-5A8
450-473-1884

Line Total: \$798.84

Note:

3/27/2014



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO23537**

Purchase Order Date 3/27/2014

PO Print Date 3/27/2014

Page Number 4 of 5

Order From : METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W 0E9
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 514 694 9575

Buyer Chantal Lavoie

Customer POID

10127-2607

Customer Tax #

Net 10

Terms

CAD

Currency

FCA - (Free Carrier)

FOB

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

4	M174PH-H900R2.000	17-4SS H900 ROUND BAR 2.000	4/4/2014	24.00	\$38.78	\$930.72
			Yes	f 24.6468		
			4/4/2014			

MATERIAL: 17-4 PH COND. H900
AS PER AMS 5643

NOTE:
PLEASE SHIP MATERIAL TO METCOR INC.
560 BOULV. ARTHUR SAUVE
SAINT-EUSTACHE, QC
J7R-5A8
450-473-1884

Line Total: \$930.72

5	71401-45	PROCUREMENT QUALITY CLAUSES	4/4/2014	1.00	\$0.00	\$0.00
			No			
			4/4/2014			
		Procurement Quality Clauses				
		A005 right of entry				
		A012 chemical and physical test report				
		A016 personnel qualification				
		A017 raw material identification (as applicable)				
		A026 certification of material conformance				
		A041 quality management system				
		A042 dart notification by supplier				
		A043 retention of quality documents				

Note:

3/27/2014



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO23537**

Purchase Order Date 3/27/2014
PO Print Date 3/27/2014

Page Number 5 of 5

Order From : VC-MET001
METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W 0E9
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 514 694 9575

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 10
Currency CAD
FOB FCA - (Free Carrier)

Line Total: \$0.00

PO Total: \$2,182.68

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 2

Change Date: 3/27/2014

Purchase Order Receipt Listing

Wednesday, April 16, 2014 6:51:22 AM

All Vendors PO ID PO23538 Receipt Dates from 4/16/2014 to 4/16/2014 All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID Reference/ Cert Std	PO U/M/ Stock U/M	Required Date/ Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
PO23538 CAD	1 No	VC-MET004 HEAT TREAT MATERIAL TO H900 M128863	71425-30 Each	4/18/2014 1.0000	4/16/2014 DESJ02	1.0000 \$513.67	\$513.67 0.0000	0.0000 0.0000	0 0	\$513.67

VendorID\Vendor Name VC-MET004 Metcor Inc.

71425-30 Each
HEAT TREAT
MATERIAL TO
H900
M128863

Total Received Quantity: 1.0000
Total Qty to Inspect (PO U/M): 0.0000
Total Reject Quantity: 0.0000
Total Receipt Value: \$513.67
Total Balance Due Quantity: 0.0000

All amounts are calculated in domestic currency.

METCOR INC.

560 BOUL. ARTHUR-SAUVÉ
ST-EUSTACHE, QC J7R 5A8
Tel: 450-473-1884 / Fax: 450-491-5498

Reçu de livraison

Delivery Receipt

BON DE TRAVAIL Order	EXPÉDITEUR Shipper ID	BON D'EXPÉDITION Shipper
194748	1	80453

EXPÉDITION COMPLÈTE / Shipped Complete

CLIENT /Customer 215

DART AEROSPACE
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
Ph: 613-632-5200
Fax: 613-632-1053

LIVRÉ À /Shipped To

DART AEROSPACE
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
Ph: 613-632-5200
Fax: 613-632-1053

COMMANDE DU CLIENT Customer PO	BON DE LIVRAISON DU CLIENT Customer Shipper No.	TYPE DE MATÉRIEL Material Type	DATE DE LA COMMANDE Order Date	TRANSPORTEUR Carrier
PO23537		7-4 PH AMS 534;	2014/4/4	TST

QUANTITÉ Quantity	No. PIÈCE Part No.	NOM DE LA PIÈCE Part Name	DESCRIPTION DE LA PIÈCE Part Description	POIDS Weight
12	M174PH-H900R1.500			224,
(12)	M174PH-H900R1.500			
	BAR ROUND 1.500			

1 PALETTE

TYPE DE CONTENEUR Container Type	# DE CONTENEURS # Of Containers	COMMENTAIRES CONTENEUR Container Comments
PALETTE	1	

EMPAQUETAGE Packing	
------------------------	--

QUANTITÉ EXPÉDIÉE / Quantity Shipped : 12
POIDS EXPÉDIÉ / Weight Shipped : 224,00
QUANTITÉ RESTANTE / Quantity Remaining : 0
POIDS RESTANT / Weight Remaining : 0,00

QUANTITÉ EXPÉDIÉE /Quantity Shipped:	12
POIDS EXPÉDIÉ / Weight Shipped :	224,00

Signature:

Date:

EXPÉDIÉ LE / Shipped On : 2014/04/10

METCOR INC.

560 BOUL. ARTHUR-SAUVÉ
ST-EUSTACHE, QC J7R 5A8
Tel: 450-473-1884 / Fax: 450-491-5498

Reçu de livraison

Delivery Receipt

BON DE TRAVAIL Order	EXPÉDITEUR Shipper ID	BON D'EXPÉDITION Shipper
194745	1	80454

EXPÉDITION COMPLÈTE / Shipped Complete

CLIENT /Customer 215

DART AEROSPACE
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
Ph: 613-632-5200
Fax: 613-632-1053

LIVRÉ À /Shipped To

DART AEROSPACE
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
Ph: 613-632-5200
Fax: 613-632-1053

COMMANDÉ DU CLIENT Customer PO	BON DE LIVRAISON DU CLIENT Customer Shipper No.	TYPE DE MATÉRIEL Material Type	DATE DE LA COMMANDE Order Date	TRANSPORTEUR Carrier
23537		17-4PH	2014/4/4	PUROLETTER

QUANTITÉ Quantity	No. PIÈCE / Part No.	NOM DE LA PIÈCE / Part Name	DESCRIPTION DE LA PIÈCE Part Description	POIDS Weight
8	M174PH-H900R0.750			36,
(8)	M174PH-H900R0.750			
	BAR ROUND 0.750			
	1 NIL			

TYPE DE CONTENEUR Container Type	# DE CONTENEURS # Of Containers	COMMENTAIRES CONTENEUR Container Comments
NIL	1	

EMPAQUETAGE Packing	
------------------------	--

QUANTITÉ EXPÉDIÉE / Quantity Shipped : 8
POIDS EXPÉDIÉ / Weight Shipped : 36,00
QUANTITÉ RESTANTE / Quantity Remaining : 0
POIDS RESTANT / Weight Remaining : 0,00

QUANTITÉ EXPÉDIÉE /Quantity Shipped:	8
POIDS EXPÉDIÉ / Weight Shipped :	36,00

Signature:

Date:

EXPÉDIÉ LE / Shipped On : 2014/04/10

METCOR INC.

560 BOUL. ARTHUR-SAUVÉ
ST-EUSTACHE, QC J7R 5A8
Tel: 450-473-1884 / Fax: 450-491-5498

Reçu de livraison

Delivery Receipt

BON DE TRAVAIL Order	EXPÉDITEUR Shipper ID	BON D'EXPÉDITION Shipper
194747	1	80456

EXPÉDITION COMPLÈTE / Shipped Complete

CLIENT /Customer 215

DART AEROSPACE
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
Ph: 613-632-5200
Fax: 613-632-1053

LIVRÉ À /Shipped To

DART AEROSPACE
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
Ph: 613-632-5200
Fax: 613-632-1053

COMMANDE DU CLIENT Customer PO	BON DE LIVRAISON DU CLIENT Customer Shipper No.	TYPE DE MATÉRIEL Material Type	DATE DE LA COMMANDE Order Date	TRANSPORTEUR Carrier
23537 538		17-4PH	2014/4/4	TST

QUANTITÉ Quantity	No. PIÈCE / Part No.	NOM DE LA PIÈCE / Part Name	DESCRIPTION DE LA PIÈCE Part Description	POIDS Weight
8	M174PH-H-900R2.000			272,
(8)	M174PH-H900R2.00			
	BAR ROUND 2.000			
		1 PALETTE		

TYPE DE CONTENEUR Container Type	# DE CONTENEURS # Of Containers	COMMENTAIRES CONTENEUR Container Comments
PALETTE	1	

EMPAQUETAGE Packing	QUANTITÉ EXPÉDIÉE / Quantity Shipped : 8
	POIDS EXPÉDIÉ / Weight Shipped : 272,00
	QUANTITÉ RESTANTE / Quantity Remaining : 0
	POIDS RESTANT / Weight Remaining : 0,00

QUANTITÉ EXPÉDIÉE /Quantity Shipped:	8
POIDS EXPÉDIÉ / Weight Shipped :	272,00

Signature:

Date:

EXPÉDIÉ LE / Shipped On : 2014/04/10



560 boulevard Arthur-Sauve, St-Eustache, Québec, J7R 5A8
Tél.: 450-473-1884
Télécopieur/Fax administration: 450-491-5498
Télécopieur/Fax production: 450-491-6454
Tél.: 450-473-1884
Télécopieur / Fax administration: 450-491-5498
Télécopieur / Fax production: 450-491-6454

Rapport d'Inspection
Inspection Report

BON DE TRAVAIL order	CHARGEMENT load
194747	1

CLIENT / customer 215

DART AEROSPACE
1270 ABERDEEN
HAWKESBURY ON K6A 1K7

UVRÉ À / shipped to:

DART AEROSPACE
1270 ABERDEEN
HAWKESBURY ON K6A 1K7

1

COMMANDE DU CLIENT customer po	BON DE LIVRAISON DU CLIENT customer shipper no.	MATÉRIEL material	CODE DE TRAITEMENT mat'l heat code	NUMÉRO DE LOT lot number
23537		17-4PH		

SPÉCIFICATIONS DU PROCÉDÉ

processing specifications

AGE HARDEN

CONDITION H 900

SAE AMS 5643 REV. R

EXIGENCE / requirement	SPÉCIFICATIONS / specified	TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results
HARDNESS	40 - 47 HRC	8	45.0 - 46.0 HRC

QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description
8	272	M174PH-H-900R2.000 (8) M174PH-H800R2.00 BAR ROUND 2.000 1 PALETTE

COMMENTAIRES / comments

15/04/2014

APPROUVÉ par / Approved by:

BB
METCOR
11

DATE: 2014-04-10

METCOR INC.

560 BOUL. ARTHUR-SAUVÉ
ST-EUSTACHE, QC J7R 5A8
Tel: 450-473-1884 / Fax: 450-491-5498

Reçu de livraison

Delivery Receipt

BON DE TRAVAIL	EXPÉDITEUR	BON D'EXPÉDITION
Order	Shipper ID	Shipper
194746	1	80455

EXPÉDITION COMPLÈTE / Shipped Complete

CLIENT /Customer 215

DART AEROSPACE
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
Ph: 613-632-5200
Fax: 613-632-1053

LIVRÉ À /Shipped To

DART AEROSPACE
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
Ph: 613-632-5200
Fax: 613-632-1053

COMMANDÉ DU CLIENT	BON DE LIVRAISON DU CLIENT	TYPE DE MATÉRIEL	DATE DE LA COMMANDE	TRANSPORTEUR
Customer PO	Customer Shipper No.	Material Type	Order Date	Carrier
23537		17-4PH	2014/4/4	PUROLETTER

QUANTITÉ	No. PIÈCE / NOM DE LA PIÈCE	DESCRIPTION DE LA PIÈCE	POIDS
Quantity	Part No. Part Name	Part Description	Weight

8 M174PH-H900R0.500 16,
(8) M174PH-H900R0.500

BAR ROUND 0.500

1 NIL

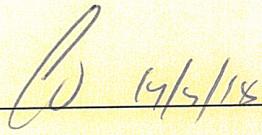
TYPE DE CONTENEUR	# DE CONTENEURS	COMMENTAIRES CONTENEUR
Container Type	# Of Containers	Container Comments
NIL	1	

EMPAQUETAGE	
Packing	

QUANTITÉ EXPÉDIÉE / Quantity Shipped : 8
POIDS EXPÉDIÉ / Weight Shipped : 16,00
QUANTITÉ RESTANTE / Quantity Remaining : 0
POIDS RESTANT / Weight Remaining : 0,00

QUANTITÉ EXPÉDIÉE /Quantity Shipped:	8
POIDS EXPÉDIÉ / Weight Shipped :	16,00

Signature:



Date:

EXPÉDIÉ LE / Shipped On : 2014/04/10



5601 boulevard Arthur-Sauve, St-Eustache (Québec) J7R 5A8

Tél: 450 473-1884

Télécopieur/Fax administration: 450 491-5498

Télécopieur/Fax production: 450 491-6454

Tél.: 450-473-1884

Télécopieur / Fax administration: 450-491-5498

Télécopieur / Fax production: 450 491-6454

Rapport d'Inspection

Inspection Report

BON DE TRAVAIL order	CHARGEMENT load
194748	1

CLIENT / customer 215

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K6A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K6A 1K7

1

COMMANDE DU CLIENT customer po	BON DE LIVRAISON DU CLIENT customer shipper no.	MATÉRIEL material	CODE DE TRAITEMENT mat'l heat code	NUMÉRO DE LOT lot number
PO23537		17-4 PH AMS 5343		

SPÉCIFICATIONS DU PROCÉDÉ

processing specifications

AGE HARDEN

CONDITION H 900

SAE AMS 5643 REV. R

EXIGENCE / requirement	SPÉCIFICATIONS / specified	TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results
HARDNESS	40 - 47 HRC	12	45.0 - 46.0 HRC

QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description
12	224	M174PH-H900R1.500 (12) M174PH-H900R1.500 BAR ROUND 1.500 1 PALETTE

COMMENTAIRES / comments

15/04/2014

APPROUVÉ par / Approved by:

BB
METCOR
11

DATE: 2014-04-10



560 boulevard Arthur-Sauvé, St-Eustache (Québec) J7R 5A8
 Tél.: 450-473-1884
 Télécopieur/Fax administration: 450-491-5498
 Télécopieur/Fax production: 450-491-6454
 Tél.: 450-473-1884
 Télécopieur / Fax administration: 450-491-5498
 Télécopieur / Fax production: 450-491-6454

Rapport d'Inspection
Inspection Report

BON DE TRAVAIL order	CHARGEMENT load
194745	1

CLIENT / customer 215

DART AEROSPACE
 1270 ABERDEEN
 HAWKESBURY ON K6A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE
 1270 ABERDEEN
 HAWKESBURY ON K6A 1K7

1

COMMANDE DU CLIENT customer po	BON DE LIVRAISON DU CLIENT customer shipper no.	MATÉRIEL material	CODE DE TRAITEMENT mat'l heat code	NUMÉRO DE LOT lot number
23537		17-4PH		

SPÉCIFICATIONS DU PROCÉDÉ

processing specifications

AGE HARDEN

CONDITION H 900

SAE AMS 5643 REV. R

EXIGENCE / requirement	SPÉCIFICATIONS / specified	TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results
HARDNESS	40 - 47 HRC	8	44.0 - 45.0 HRC

QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description
8	36	M174PH-H900R0.750 (8) M174PH-H900R0.750 BAR ROUND 0.750 1 NIL

COMMENTAIRES / comments

15/04/2014

APPROUVÉ par / Approved by:

BB
 METCOR
 11

DATE: 2014-04-10



560 boulevard Arthur-Sauvé, St-Eustache (Québec) J7R 5A8
 Tél.: 450-473-1884
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 Tél.: 450-473-1884
 Télécopieur / Fax administration: 450-491-5498
 Télécopieur / Fax production: 450-491-6454

Rapport d'Inspection
 Inspection Report

BON DE TRAVAIL order	CHARGEMENT load
194746	1

CLIENT / customer 215

DART AEROSPACE
 1270 ABERDEEN
 HAWKESBURY

ON K6A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE
 1270 ABERDEEN
 HAWKESBURY

ON K6A 1K7

1

COMMANDE DU CLIENT customer po	BON DE LIVRAISON DU CLIENT customer shipper no.	MATÉRIEL material	CODE DE TRAITEMENT mat'l heat code	NUMÉRO DE LOT lot number
23537		17-4PH		

SPÉCIFICATIONS DU PROCÉDÉ

processing specifications

AGE HARDEN

CONDITION H 900

SAE AMS 5643 REV. R

EXIGENCE / requirement	SPÉCIFICATIONS / specified	TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results
HARDNESS	40 - 47 HRC	8	44.0 - 45.0 HRC

QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description
8	16	M174PH-H900R0.500 (8) M174PH-H900R0.500 BAR ROUND 0.500 1 NIL

COMMENTAIRES / comments

15/04/2014

APPROUVÉ par / Approved by

DATE: 2014-04-10

METCOR INC.

560 BOUL. ARTHUR-SAUVÉ, ST-EUSTACHE, QC, J7R 5A8

Tél.: 450-473-1884

Télécopieur / Fax administration: 450-491-5498

Télécopieur / Fax production: 450 491-6454

Certificat de Conformité Détailé

Detailed Certificate of Compliance

BON DE TRAVAIL order	CHARGEMENT load
194746	1

CLIENT / customer 215

DART AEROSPACE
1270 ABERDEEN
HAWKESBURY

ON K6A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE
1270 ABERDEEN
HAWKESBURY

1

ON K6A 1K7

COMMANDE DU CLIENT customer po	BON DE LIVRAISON DU CLIENT customer shipper no.	MATÉRIEL material	CODE DE TRAITEMENT mat'l heat code	NUMÉRO DE LOT lot number
23537		17-4PH		

SPÉCIFICATIONS DU PROCÉDÉ processing specifications

AGE HARDEN

CONDITION H 900

SAE AMS 5643 REV. R

EXIGENCE / requirement	SPÉCIFICATIONS / specified TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results
HARDNESS	40 - 47 HRC	8 44.0 - 45.0 HRC

QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description
8	16	M174PH-H900R0.500 (8) M174PH-H900R0.500 BAR ROUND 0.500 1 NIL

COMMENTAIRES / comments

AGE HARDEN 900F, 1HR

Le traitement thermique (TT) a été fait en utilisant des équipements en conformité avec la spécification demandée. Toutes les opérations de TT ont été faites en conformité avec les requis de la spécification demandée et toutes les vérifications et les tests demandés ont été faites et documentés. Aucun changement n'a été fait par rapport au TT. On certifie que le matériel a été fabriqué, échantilloné, testé et inspecté en accord avec les spécifications du matériel et le bon de commande et le matériel rencontre les exigences spécifiées.

Heat treatment (HT) was performed with equipment that meets the requirements of requested specification. All HT operations were performed in compliance with the required HT specification and all verifications have been performed and documented. No unauthorized changes were performed in regards to the HT. We certify that the material was manufactured, sampled, tested and inspected in accordance with the material specification and the purchase order and was found to meet the requirements.

APPROUVÉ par / Approved by:

Vincent Constant

MET
18

DATE: 2014-04-11

METCOR INC.

560 BOUL. ARTHUR-SAUVÉ, ST-EUSTACHE, QC, J7R 5A8

Tél.: 450-473-1884

Télécopieur / Fax administration: 450-491-5498

Télécopieur / Fax production: 450 491-6454

Certificat de Conformité Détailé

Detailed Certificate of Compliance

BON DE TRAVAIL order	CHARGEMENT load
194747	1

CLIENT / customer 215

DART AEROSPACE
1270 ABERDEEN
HAWKESBURY

ON K6A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE
1270 ABERDEEN
HAWKESBURY

1

ON K6A 1K7

COMMANDÉ DU CLIENT customer po	BON DE LIVRAISON DU CLIENT customer shipper no.	MATÉRIEL material	CODE DE TRAITEMENT mat'l heat code	NUMÉRO DE LOT lot number
23537		17-4PH		

SPÉCIFICATIONS DU PROCÉDÉ processing specifications

AGE HARDEN

CONDITION H 900

SAE AMS 5643 REV. R

EXIGENCE / requirement	SPÉCIFICATIONS / specified TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results
HARDNESS	40 - 47 HRC	8 45.0 - 46.0 HRC

QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description
8	272	M174PH-H-900R2.000 (8) M174PH-H900R2.00 BAR ROUND 2.000 1 PALETTE

COMMENTAIRES / comments

AGE HARDEN 900F, 1HR

Le traitement thermique (TT) a été fait en utilisant des équipements en conformité avec la spécification demandée. Toutes les opérations de TT ont été faites en conformité avec les requis de la spécification demandée et toutes les vérifications et les tests demandés ont été faites et documentés. Aucun changement n'a été fait par rapport au TT. On certifie que le matériel a été fabriqué, échantillonné, testé et inspecté en accord avec les spécifications du matériel et le bon de commande et le matériel rencontre les exigences spécifiées.

Heat treatment (HT) was performed with equipment that meets the requirements of requested specification. All HT operations were performed in compliance with the required HT specification and all verifications have been performed and documented. No unauthorized changes were performed in regards to the HT. We certify that the material was manufactured, sampled, tested and inspected in accordance with the material specification and the purchase order and was found to meet the requirements.

APPROUVÉ par / Approved by:

Vincent Canotte MET
18

DATE: 2014-04-11

METCOR INC.

560 BOUL. ARTHUR-SAUVÉ, ST-EUSTACHE, QC, J7R 5A8

Tél.: 450-473-1884

Télécopieur / Fax administration: 450-491-5498

Télécopieur / Fax production: 450 491-6454

Certificat de Conformité Détailé

Detailed Certificate of Compliance

BON DE TRAVAIL order	CHARGEMENT load
194745	1

CLIENT / customer 215

DART AEROSPACE
1270 ABERDEEN
HAWKESBURY

ON K6A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE
1270 ABERDEEN
HAWKESBURY

1

ON K6A 1K7

COMMANDE DU CLIENT customer po	BON DE LIVRAISON DU CLIENT customer shipper no.	MATÉRIEL material	CODE DE TRAITEMENT mat'l heat code	NUMÉRO DE LOT lot number
23537		17-4PH		

SPÉCIFICATIONS DU PROCÉDÉ processing specifications

AGE HARDEN

CONDITION H 900

SAE AMS 5643 REV. R

EXIGENCE / requirement	SPÉCIFICATIONS / specified TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results
HARDNESS	40 - 47 HRC	8 44.0 - 45.0 HRC

QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description
8	36	M174PH-H900R0.750 (8) M174PH-H900R0.750 BAR ROUND 0.750 1 NIL

COMMENTAIRES / comments

AGE HARDEN 900F, 1HR

Le traitement thermique (TT) a été fait en utilisant des équipements en conformité avec la spécification demandée. Toutes les opérations de TT ont été faites en conformité avec les requis de la spécification demandée et toutes les vérifications et les tests demandés ont été faites et documentés. Aucun changement n'a été fait par rapport au TT. On certifie que le matériel a été fabriqué, échantillonné, testé et inspecté en accord avec les spécifications du matériel et le bon de commande et le matériel rencontre les exigences spécifiées.

Heat treatment (HT) was performed with equipment that meets the requirements of requested specification. All HT operations were performed in compliance with the required HT specification and all verifications have been performed and documented. No unauthorized changes were performed in regards to the HT. We certify that the material was manufactured, sampled, tested and inspected in accordance with the material specification and the purchase order and was found to meet the requirements.

APPROUVÉ par / Approved by:

Vincent Cuthbert

MET
18

DATE: 2014-04-11

METCOR INC.

560 BOUL. ARTHUR-SAUVÉ, ST-EUSTACHE, QC, J7R 5A8
 Tél.: 450-473-1884
 Télécopieur / Fax administration: 450-491-5498
 Télécopieur / Fax production: 450 491-6454

Certificat de Conformité Détailé

Detailed Certificate of Compliance

BON DE TRAVAIL order	CHARGEMENT load
194748	1

CLIENT / customer 215

DART AEROSPACE
 1270 ABERDEEN
 HAWKESBURY ON K6A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE
 1270 ABERDEEN
 HAWKESBURY ON K6A 1K7

1

COMMANDE DU CLIENT customer po	BON DE LIVRAISON DU CLIENT customer shipper no.	MATÉRIEL material	CODE DE TRAITEMENT mat'l heat code	NUMÉRO DE LOT lot number
PO23537		17-4 PH AMS 5343		

SPÉCIFICATIONS DU PROCÉDÉ processing specifications

AGE HARDEN

CONDITION H 900

SAE AMS 5643 REV. R

EXIGENCE / requirement	SPÉCIFICATIONS / specified TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results
HARDNESS	40 - 47 HRC	12 45.0 - 46.0 HRC

QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description
12	224	M174PH-H900R1.500 (12) M174PH-H900R1.500 BAR ROUND 1.500 1 PALETTE

COMMENTAIRES / comments

AGE HARDEN 900F, 1HR

Le traitement thermique (TT) a été fait en utilisant des équipements en conformité avec la spécification demandée. Toutes les opérations de TT ont été faites en conformité avec les requis de la spécification demandée et toutes les vérifications et les tests demandés ont été faites et documentés. Aucun changement n'a été fait par rapport au TT. On certifie que le matériel a été fabriqué, échantilloné, testé et inspecté en accord avec les spécifications du matériel et le bon de commande et le matériel rencontre les exigences spécifiées.

Heat treatment (HT) was performed with equipment that meets the requirements of requested specification. All HT operations were performed in compliance with the required HT specification and all verifications have been performed and documented. No unauthorized changes were performed in regards to the HT. We certify that the material was manufactured, sampled, tested and inspected in accordance with the material specification and the purchase order and was found to meet the requirements.

APPROUVÉ par / Approved by:

Vincent Corriveau



DATE: 2014-04-11



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO23538**

Purchase Order Date 3/27/2014

PO Print Date 4/15/2014

Page Number 1 of 1

Order From : VC-MET004
METCOR INC.
560 BOUL. ARTHUR SAUVE
SAINT-EUSTACHE, QC J7R 5A8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 450 473 1884

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

REvised

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
		Line Comments	Promise Date				
		Delivery Comments					
1	71425-30	HEAT TREAT MATERIAL TO H900	4/18/2014	1.00	✓	\$567.84	\$567.84
		Procurement Quality Clauses A005 right of entry A012 chemical and physical test report A020 non-destructive test/inspection identification A021 dart aerospace processing A024 process certifications A026 certification of material conformance 17-4 PH ROUND BAR .500" / .750" / 1.5 /" 2" SENT FROM METAUX CASTLE P/O:23537 FINISH: HEAT TREAT TO COND H900 FTY IN EXCESS OF 170KSI FTU IN EXCESS OF 190KSI PER AMS2759/3	Yes 4/18/2014	Each	<i>1441 14</i>		
		PLEASE ADVISE PRICE \$\$\$\$\$\$ FOR LOT					

Line Total: \$567.84

PO Total: \$567.84

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 3

Change Date: 4/15/2014